AlTaasis AlSaleem

Al-Taasis Al-Saleem Workbook
Mathematics

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الفصـــل الـــدراسي الثـــاني

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شـركـة التأســـيس السلـــيم

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Mathematics Exam 1

First Question 1 Choose the correct answer:

(1) The least common denominator of $\frac{5}{6}$ and $\frac{7}{12}$ is .....

(a) 1 (b) 12 (c) 60 (d) 6

(2) The sum of $\frac{1}{4} + \frac{1}{3}$ is .....

(a) $\frac{1}{7}$ (b) $\frac{7}{12}$ (c) $\frac{2}{7}$ (d) $\frac{2}{12}$

(3) The equivalent fractions of $\frac{6}{24}$ and $\frac{27}{36}$ are .....

(a) $\frac{1}{4}, \frac{3}{4}$ (b) $\frac{1}{4}, \frac{3}{5}$ (c) $\frac{1}{3}, \frac{3}{4}$ (d) $\frac{1}{2}, \frac{3}{4}$

(4) The shape ↘ represents .....

(a) ray (b) line segment (c) polygon (d) straight line

(5) $3 \times \frac{3}{5}$ ☐ $5 \times \frac{3}{5}$

(a) > (b) < (c) = (d) otherwise

(6) A unit fraction is a fraction whose numerator is .....

(a) 1 (b) 2 (c) 0 (d) 3

(7) The polygon which has 4 sides is called a .....

(a) triangle (b) quadrilateral (c) pentagon (d) hexagon

(8) The ..... triangle has 3 different sides.

(a) scalene (b) equilateral (c) isosceles (d) otherwise

(9) Area of a rectangle = ...

(a) L + W (b) $\frac{L}{W}$ (c) L × W (d) (L + W) × 2

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Second Question 2 Answer the following:

(1) **Evaluate:**

(a) $1\frac{1}{8} + 2\frac{1}{4} =$ .....

(b) $2\frac{2}{5} \times \frac{2}{3} =$ .....

(c) $1 - \frac{2}{3} =$ .....

(d) $\frac{1}{4} \div 3 =$ .....

(2) **On the opposite number line:**

The length of $\overline{AB}$ = ... units.

(3) Amira bought 3 kg of bananas, $2\frac{3}{8}$ kg of apples and $4\frac{1}{4}$ kg of strawberries.

How much fruits did she buy altogether? .....

(4) A triangle with only two equal sides and one angle measures 90°.

Classify the triangle according to its sides and its angles ....., ...

(5) The area of the shown rectangle = ... cm^2.

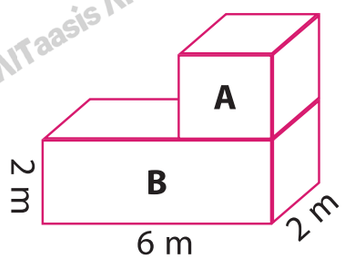
(6) In the opposite compound shape:

Find the length of the edge of the cube (A) and find its volume,

then find the total volume of the compound shape:

The volume = ...

.....

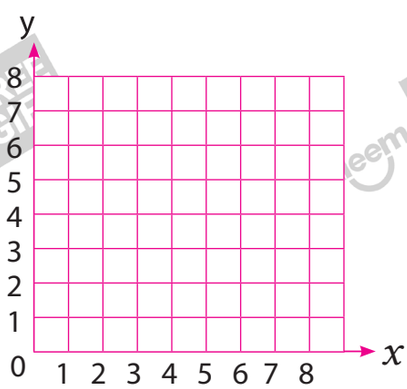


(7) On the coordinate plane,

plot the following points:

(4 , 0) , (0 , 3) , (5 , 6)

.....



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Mathematics Exam 2

First Question 1 Choose the correct answer:

(1) Which of the following has no lines of symmetry? .....

(a) rhombus (b) square (c) rectangle (d) parallelogram

(2) A ..... is a circle divided into sectors.

(a) bar graph (b) pie chart (c) pictograph (d) line plot

(3) $3 \div \frac{1}{5} =$ .....

(a) $\frac{1}{5}$ (b) $\frac{1}{15}$ (c) 15 (d) $\frac{3}{5}$

(4) $2\frac{1}{3}$ hours = ... minutes.

(a) 140 (b) 60 (c) 80 (d) 120

(5) $\frac{10}{3} = 3\frac{\text{.....}}{3}$

(a) 9 (b) 10 (c) 1 (d) 3

(6) $\frac{2}{3} \times \frac{1}{5} =$ .....

(a) $\frac{2}{15}$ (b) $\frac{3}{8}$ (c) $\frac{2}{7}$ (d) 1

(7) The LCM of the denominators of $\frac{1}{5}$ and $\frac{3}{10}$ is .....

(a) 1 (b) 2 (c) 3 (d) 10

(8) $\frac{1}{7} \times$ ..... $= 3$

(a) 35 (b) 28 (c) 21 (d) 14

(9) The base of the cylinder is in the shape of .....

(a) square (b) circle (c) rectangle (d) triangle

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Second Question 2 Answer the following:

(1) Reham bought $3\frac{5}{9}$ kilograms of flour to make a cake. She used $1\frac{2}{9}$ kilograms. How many kilograms are left?

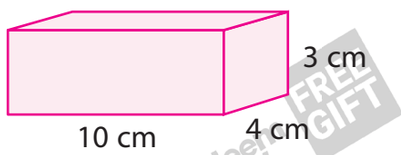
.....

(2) **Find the value of B in the following equations:**

(a) $\frac{1}{9} \times B = \frac{1}{45}$ (b) $8 \div B = 24$

(3) Find the volume of the opposite cuboid:

The volume = ...



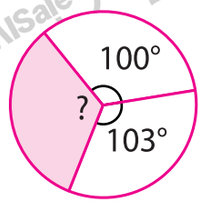
(4) Amr owns a fruit garden in the shape of a rectangle of length 2 m and width is $1\frac{1}{2}$ m. What is the area of the garden?

Area = ...

(5) **Find the following in the simplest form:**

(a) $3\frac{1}{3} \times 5\frac{1}{2} =$ ..... (b) $2 \div 5 =$ .....

(6) In the opposite figure, the measure of the central angle of the colored circular sector equals .....°



(7) Complete the following table, then answer the questions below:

x values	3	6	.....	12	.....	18
y values	5	7	9	.....	13	.....

(a) By how much do x values and y values increase?

x values increase by ....., y values increase by .....

(b) If the value of x = 21, then the value of y = ...

and the ordered pair is .....

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Mathematics Exam 3

First Question 1 Choose the correct answer:

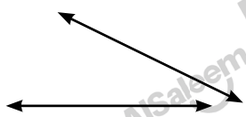
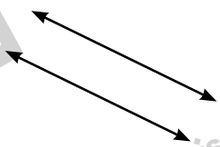
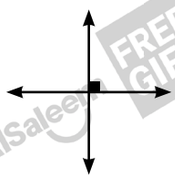
(1) Which of the following points is located on the x-axis? .....

(a) (0 , 6) (b) (4 , 6) (c) (6 , 0) (d) (6 , 6)

(2) The equivalent fraction of $\frac{16}{20}$ is .....

(a) $\frac{3}{10}$ (b) $\frac{12}{20}$ (c) $\frac{4}{5}$ (d) $\frac{3}{5}$

(3) Which of the following represents perpendicular lines? .....

(a)  (b)  (c) (d) 

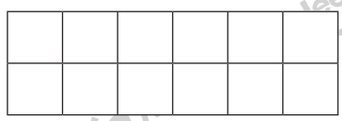
(4) The mixed number of $\frac{21}{5}$ is .....

(a) $4\frac{1}{5}$ (b) $5\frac{1}{5}$ (c) $1\frac{1}{5}$ (d) $20\frac{1}{5}$

(5) If $\frac{1}{3} \times$ ..... $= \frac{1}{18}$

(a) 5 (b) 6 (c) $\frac{1}{5}$ (d) $\frac{1}{6}$

(6) The area of the opposite rectangle = ... units.



(a) 6 (b) 12 (c) 14 (d) 16

(7) $7\frac{1}{2}$ = ... (as an improper fraction)

(a) $\frac{15}{2}$ (b) $\frac{7}{2}$ (c) $\frac{9}{2}$ (d) $\frac{10}{2}$

(8) It is impossible to draw a triangle with two ..... angles.

(a) acute (b) right (c) obtuse (d) both b and c

(9) $5\frac{1}{2} \times \frac{3}{4} = (5 \times \frac{3}{4}) + ($ ..... $\times$ ..... $)$

(a) $5 \times \frac{1}{2}$ (b) $\frac{1}{2} \times \frac{3}{4}$ (c) $3 \times \frac{1}{4}$ (d) $4 \times \frac{1}{3}$

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Second Question 2 Answer the following:

(1) **Find the result:**

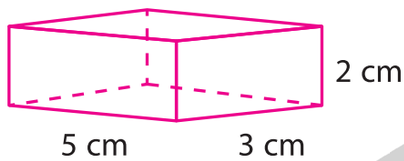
(a) $4 \div \frac{1}{3} =$ .....

(b) $2\frac{2}{5} + 1\frac{3}{15} =$ .....

(2) Find the area of a square with a side length of 7 cm.

.....

(3) Find the volume of the opposite cuboid.



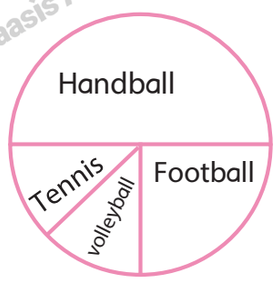
.....

(4) **In the opposite pie chart:**

(a) The fraction representing football is .....

(b) The fraction representing handball is .....

(c) The fraction representing tennis is .....



(5) Sara has $\frac{2}{3}$ kg of lemons. She used $\frac{1}{9}$ kg as juice.
How many kilograms of lemon are left?

.....

(6) If the price of a book is $2\frac{1}{3}$ L.E. Find the total price of 12 books.

.....

(7) **In the opposite coordinate plane:**

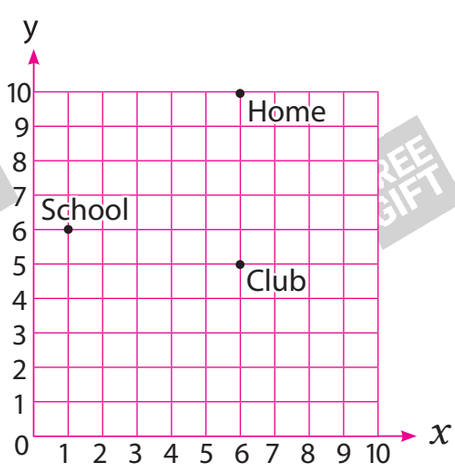
Start from the origin point (0, 0)

Move 6 units to the right (horizontally) on the x-axis,

then move 10 units up (vertically)

Locate the building at this point.

Answer: .....



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Mathematics Exam 4

First Question 1 Choose the correct answer:

(1) $\frac{1}{3} \div 2 =$ .....

(a) $\frac{1}{2}$ (b) $\frac{1}{6}$ (c) $\frac{2}{3}$ (d) $\frac{3}{2}$

(2) An equivalent fraction of $\frac{10}{30}$ is .....

(a) $\frac{1}{3}$ (b) $\frac{2}{3}$ (c) $\frac{1}{5}$ (d) $\frac{3}{10}$

(3) The solid that has 8 vertices, 12 edges and 6 square faces is .....

(a) pyramid (b) cuboid (c) sphere (d) cube

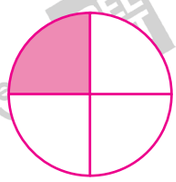
(4) The angle whose measure is greater than 0° and less than 90° is ..... angle

(a) right (b) acute (c) obtuse (d) straight

(5) The square meter is a unit used to measure the .....

(a) length (b) width (c) volume (d) area

(6) The fraction that represents the shaded part is .....



(a) $\frac{1}{4}$ (b) $\frac{1}{5}$ (c) $\frac{1}{6}$ (d) $\frac{1}{8}$

(7) The difference of : $1 - \frac{2}{6} - \frac{3}{6} =$ .....

(a) $\frac{1}{6}$ (b) $\frac{2}{6}$ (c) $\frac{3}{6}$ (d) $\frac{4}{6}$

(8) A triangle with side lengths 6 cm, 4 cm and 6 cm is called .....

(a) obtuse (b) isosceles (c) scalene (d) equilateral

(9) $\frac{2}{7} \times \frac{5}{.....} = \frac{10}{49}$

(a) 2 (b) 5 (c) 7 (d) 14

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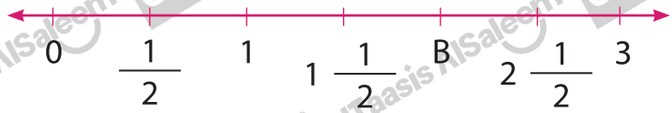
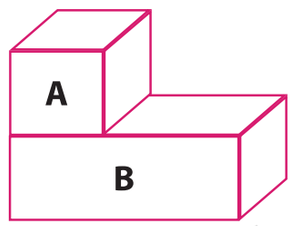
Second Question 2 Answer the following:

(1) Find the value of the point B on the following number line.

B = ...



(2) If the total volume of the compound shape shown = 400 m^3,
and the volume of cuboid (B) = 260 m^3,
find the volume of cuboid (A).



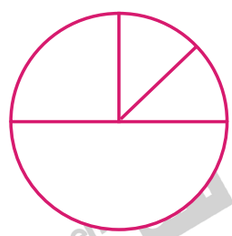
Volume of cuboid (A) = ...

(3) Find the area of a rectangle with dimensions $2\frac{1}{3}$ cm and $1\frac{1}{2}$ cm.

.....

(4) The following table shows the results of a math exam in a primary school of 100 students.

Rate	Excellent	Good	Pass	Weak
Fractions	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$



Represent these data in the opposite pie chart.

.....

(5) **Find the result:** (a) $\frac{6}{10} - \frac{1}{5} =$ ..... (b) $5 \div \frac{1}{2} =$ .....

(6) How many edges does a cylinder have?

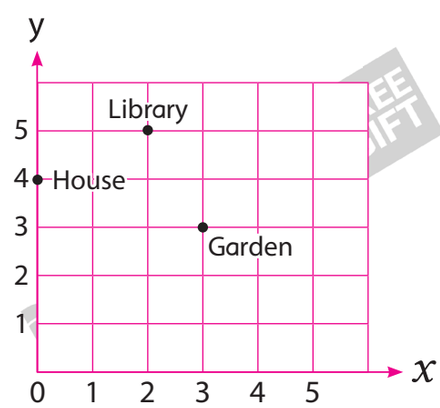
.....

(7) In the given figure, the coordinates of the following points:

House .....

Library .....

Garden .....



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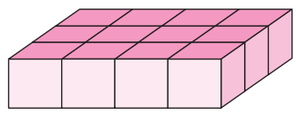
Mathematics Exam 5

First Question 1 Choose the correct answer:

(1) A central angle of 270° represents ..... of the circle.

(a) a quarter (b) a fifth (c) a half (d) three fourths

(2) The volume of the opposite shape is ..... cubic units.



(a) 4 (b) 6 (c) 8 (d) 12

(3) The sum of $3 + \frac{1}{5} + \frac{2}{5} =$ .....

(a) $\frac{6}{5}$ (b) $\frac{3}{5}$ (c) $3\frac{2}{5}$ (d) $3\frac{3}{5}$

(4) Number of faces of a rectangular prism box without a top face is ..... faces.

(a) 4 (b) 5 (c) 6 (d) 8

(5) Find the result : $\frac{2}{3} \times \frac{5}{5} =$ .....

(a) $\frac{10}{8}$ (b) $\frac{7}{15}$ (c) $\frac{10}{15}$ (d) $\frac{5}{15}$

(6) In the ordered pair (2,0) the y-coordinate is .....

(a) 1 (b) 2 (c) 0 (d) 3

(7) 90 minutes = ... hours.

(a) $1\frac{1}{3}$ (b) $1\frac{1}{2}$ (c) 2 (d) $2\frac{1}{2}$

(8) If $6 \div n = 24$, then $n =$ .....

(a) 4 (b) $\frac{1}{4}$ (c) $\frac{1}{2}$ (d) $\frac{1}{3}$

(9) The difference of : $\frac{1}{3} - \frac{1}{6} =$ .....

(a) $\frac{0}{4}$ (b) $\frac{4}{6}$ (c) $\frac{1}{6}$ (d) $\frac{4}{24}$

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Second Question 2 Answer the following:

(1) Find the value of C in $\frac{23}{4} = C\,\frac{3}{4}$

.....

(2) Calculate the area of a rectangle whose length is 5m and whose width is $1\,\frac{1}{5}$ m

.....

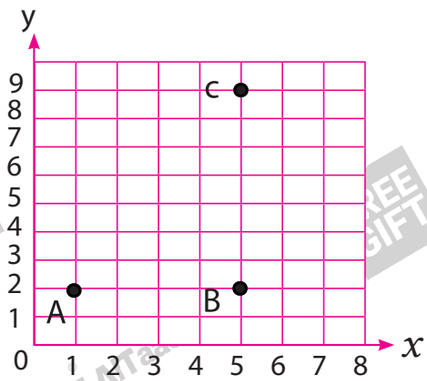
(3) Find the result: (a) $\frac{1}{2} \div \frac{1}{6} =$ ..... (b) $\frac{2}{3} \times 1.5 =$ .....

(c) $\frac{5}{6} + \frac{1}{12} =$ ..... (d) $3\,\frac{2}{3} - 1\,\frac{3}{5} =$ .....

(4) If the volume of the cuboid is 72 cm^3 and its width is 3 cm and its height is 4 cm.
Find the length of the cuboid.

.....

(5) From the given coordinate plane, answer the following:



(a) The coordinate of point C is .....

(b) Connect the points A, B, C, then determine the type of triangle ABC according to its angles .....

(6) **Use the number line to answer the questions:**

(a) What is the value of A? .....

(b) How far is point C from point B? .....

(7) Rahma bought $2\,\frac{1}{3}$ meters of cloth, if the price of one meter is $5\,\frac{1}{2}$ pounds, what is the total amount Rahma paid?

Total amount = ...

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Mathematics Exam 6

First Question 1 Choose the correct answer:

(1) $1\frac{1}{4} \times \frac{2}{5} =$ .....

(a) $\frac{1}{4}$ (b) $\frac{1}{2}$ (c) $\frac{2}{5}$ (d) $\frac{3}{9}$

(2) The origin point is .....

(a) (1,4) (b) (1,2) (c) (0,1) (d) (0,0)

(3) The triangle whose angles are 50°, 60° and ..... is an acute triangle.

(a) 150° (b) 160° (c) 70° (d) 100°

(4) The least common denominator (LCD) of $\frac{2}{3}$ and $\frac{3}{5}$ is .....

(a) 8 (b) 7 (c) 10 (d) 15

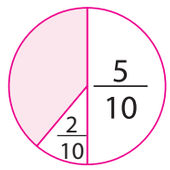
(5) The cube has .....faces.

(a) 6 (b) 8 (c) 12 (d) 5

(6) A cuboid has 3 horizontal layers and 5 cubes in each layer. Its volume is ..... cubic units.

(a) 24 (b) 8 (c) 15 (d) 16

(7) The fraction that represents the shaded part of the figure is .....



(a) $\frac{1}{5}$ (b) $\frac{1}{4}$ (c) $\frac{1}{10}$ (d) $\frac{3}{10}$

(8) The quadrilateral that has 4 lines of symmetry is the .....

(a) square (b) rhombus (c) rectangle (d) parallelogram

(9) $\frac{2}{3} \times \frac{\ldots\ldots}{5} = \frac{2}{3}$

(a) 2 (b) 3 (c) 5 (d) 7

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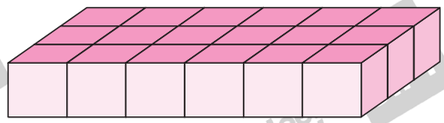
Second Question 2 Answer the following:

(1) Observe the opposite shape, then complete:



Number of horizontal layers = ...

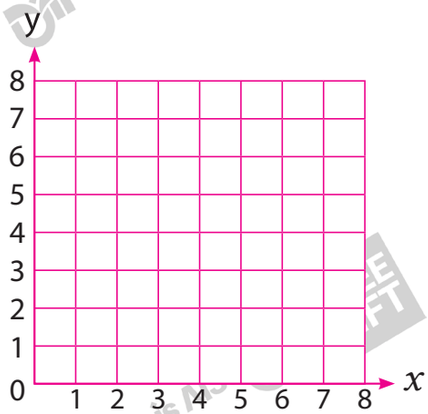
Number of cubes in each horizontal layer = ... cubes

Volume = ... cubic units.

(2) Plot the points on the coordinate plane

A (2, 4) B (6, 4)

D (2, 8) C (6, 8)



(a) The length of $\overline{AB}$ = ... units.

(b) Connect the points and name the resulting shape .....

(3) How many thirds are in the number 7?

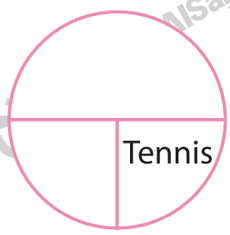
.....

(4) Use the distributive property to find the product. Write the answer in the simplest form:

$2\frac{2}{5} \times \frac{2}{3}$ = ...

(5) Complete the pie chart using the following data:

Tennis	Football	Basketball
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{2}$



(6) **Evaluate:** $1\frac{1}{6} + 2\frac{1}{3}$ = ...

(7) Talia bought $2\frac{1}{3}$ packs of rice. If each pack is $1\frac{5}{7}$ kg of rice.

How much rice did she buy?

.....

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Mathematics Exam 7

First Question 1 Choose the correct answer:

(1) The angle measure of the sector that represents half a circle is .....

(a) 45° (b) 90° (c) 180° (d) 200°

(2) The triangle with side lengths 7 cm, 8 cm and .....cm is an isosceles triangle.

(a) 5 (b) 7 (c) 6 (d) 9

(3) $\frac{2}{3} \times \frac{5}{7} =$ .....

(a) $\frac{7}{10}$ (b) $\frac{14}{15}$ (c) $\frac{10}{21}$ (d) $\frac{3}{4}$

(4) The value of A in the pattern (2, 10) , (3, 15) , (4, A) , (5, 25) is .....

(a) 20 (b) 30 (c) 40 (d) 5

(5) The ..... has two pairs of parallel sides.

(a) triangle (b) rhombus (c) pentagon (d) trapezium

(6) $3\frac{1}{2}$ years = ... months.

(a) 24 (b) 36 (c) 42 (d) 12

(7) A cube has ..... edges.

(a) 6 (b) 8 (c) 12 (d) 5

(8) $\frac{1}{2} \div 3 =$ .....

(a) $\frac{3}{2}$ (b) $\frac{1}{6}$ (c) $\frac{1}{5}$ (d) $\frac{2}{3}$

(9) The equivalent fraction of $\frac{36}{63}$ is .....

(a) $\frac{3}{6}$ (b) $\frac{6}{13}$ (c) $\frac{3}{16}$ (d) $\frac{4}{7}$

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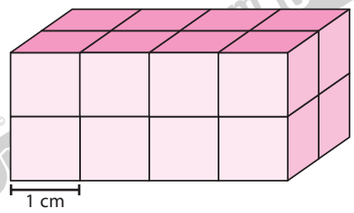
Second Question 2 Answer the following:

(1) Write the dimensions of the rectangular prism, then find its volume.

Length	Width	Height	Volume
..... cm	..... cm	..... cm	..... cm^3



(2) Noha ate $\frac{1}{7}$ of the apple pie and her sister Nadia ate $\frac{1}{4}$ of the same pie.
What is the total amount they ate altogether?

.....

(3) Find the quotient of $5\overline{)12}$

.....

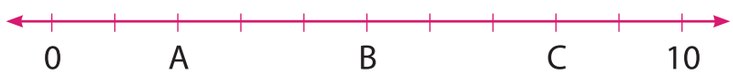
(4) Find a fraction equivalent to $\frac{5}{7}$ whose numerator is 30.

.....

(5) **Complete:** (a) The area of a rectangle = ... × width.

(b) Any triangle has at least ..... acute angle(s).

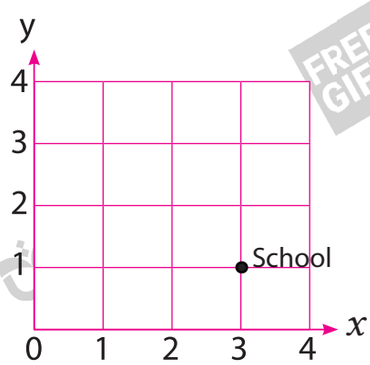
(6) **Use the number line to answer the questions:**



(a) What is the value of A? .....

(b) What is the distance between A and C? .....

(7) **Using the coordinate plane:**
The ordered pair which represents the school is (.....,.....)



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Mathematics Exam 8

First Question 1 Choose the correct answer:

(1) An equivalent fraction of $\frac{12}{20}$ is .....

(a) $\frac{1}{5}$ (b) $\frac{3}{4}$ (c) $\frac{3}{5}$ (d) $\frac{2}{5}$

(2) $\frac{3}{4} - \frac{1}{3} =$ .....

(a) $\frac{2}{10}$ (b) 2 (c) $\frac{2}{12}$ (d) $\frac{5}{12}$

(3) The sum of: $4 + \frac{1}{9} + 2 + \frac{4}{9}$ is .....

(a) $6\frac{3}{9}$ (b) $6\frac{5}{9}$ (c) $6\frac{1}{9}$ (d) $2\frac{3}{9}$

(4) The improper fraction which is equivalent to $1\frac{3}{5}$ is .....

(a) $\frac{4}{5}$ (b) $\frac{8}{5}$ (c) $\frac{15}{5}$ (d) $\frac{13}{5}$

(5) $4 \div \frac{1}{2} =$ .....

(a) 5 (b) 6 (c) 8 (d) $4\frac{1}{2}$

(6) ..... $\times \frac{4}{11} = \frac{4}{11} + \frac{4}{11} + \frac{4}{11} + \frac{4}{11}$

(a) 4 (b) 11 (c) 14 (d) 10

(7) The measure of an obtuse angle ..... the measure of a right angle.

(a) < (b) > (c) = (d) otherwise

(8) In the ordered pair (....., ...), the x-coordinate is 2 and the y-coordinate is 5

(a) (3, 5) (b) (5, 2) (c) (2, 5) (d) (3, 7)

(9) A unit of volume can be .....

(a) m (b) cm^2 (c) km (d) m^3

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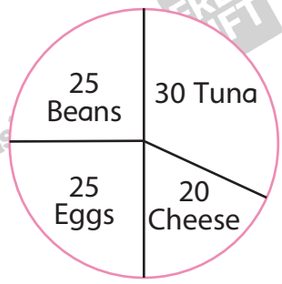
Second Question 2 Answer the following:

(1) **The opposite figure shows the favorite breakfast for some students:**



(a) What is the total number of students in the survey? .....

(b) What is the fraction of students who prefer Tuna? .....

(2) **Evaluate in the simplest form:**

(a) $2\frac{1}{3} \times \frac{3}{5} =$ .....

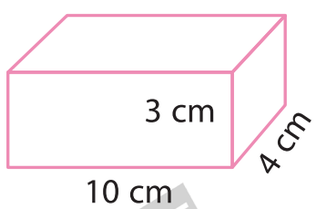
(b) $2\frac{5}{7} + 3\frac{2}{7} =$ .....

(3) A rug has a length of 3 m and a width of $\frac{3}{4}$ m.

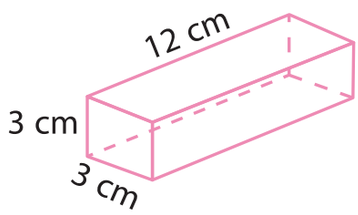
What is the area of the rug? .....

(4) Which prism has the greater volume? Rectangular prism [A] or rectangular prism [B]?

(a)



(b)



.....

.....

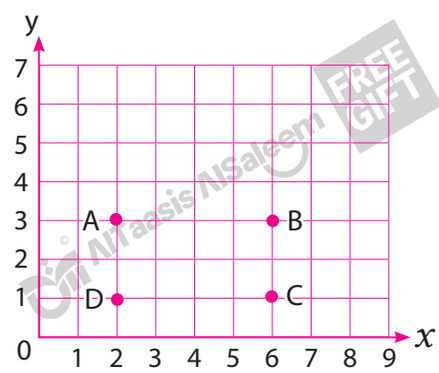
(5) What is the quadrilateral which has only 1 pair of parallel sides? .....

(6) Khalid has 80 $\frac{3}{4}$ pounds. He gave his brother 20 $\frac{1}{2}$ pounds.

How many pounds are left with Khalid?

.....

(7) **From the opposite coordinate plane:**



(a) The point D (.....,.....)

(b) Connect the points A ⟶ B ⟶ C ⟶ D ⟶ A, then determine the name of the figure ABCD .....

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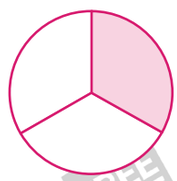
Mathematics Exam 9

First Question 1 Choose the correct answer:

(1) The solid that has 5 vertices and 8 edges is a .....

(a) cone (b) cube (c) cuboid (d) square pyramid

(2) If the circle represents 60 students, then the number of students represented by the shaded part = ... students.



(a) 20 (b) 30 (c) 40 (d) 60

(3) The vertical number line in the coordinate plane is called .....

(a) origin point (b) x-axis (c) y-axis (d) ordered pair

(4) A/An ..... triangle has 3 acute angles.

(a) right (b) acute (c) obtuse (d) otherwise

(5) $17 \div \frac{1}{2} = 17 \times$ .....

(a) 2 (b) 7 (c) 1 (d) 10

(6) ..... $\times$ ..... $= (\frac{3}{4} \times 1) + (\frac{3}{4} \times \frac{1}{9})$

(a) $1\frac{1}{4} \times \frac{3}{4}$ (b) $1 \times 1\frac{3}{4}$ (c) $\frac{3}{4} \times 1\frac{1}{9}$ (d) $\frac{1}{4} \times \frac{1}{9}$

(7) $1\frac{1}{4}$ days = ... hours

(a) 24 (b) 6 (c) 30 (d) 8

(8) $2\frac{2}{4} + 3\frac{1}{4} =$ .....

(a) $\frac{3}{8}$ (b) $\frac{1}{8}$ (c) $5\frac{3}{4}$ (d) $5\frac{1}{8}$

(9) $\frac{3}{9} = \frac{.....}{90}$

(a) 10 (b) 30 (c) 60 (d) 90

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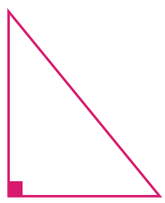
Second Question 2 Answer the following:

(1) Karma walked $\frac{1}{5}$ Km and Karim walked $\frac{1}{3}$ Km more than Karma.
How far did Karim walk?

.....

(2) What type of triangle is the opposite triangle according to its sides and angles?



.....

(3) Find in the simplest form: $2\frac{1}{3} \times 2\frac{5}{7} =$ .....

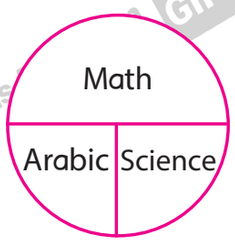
(4) A door has a width of $1\frac{1}{2}$ meters and its length is $2\frac{1}{2}$ meters.
What is the area of the door in square meters?

.....

(5) Monir has a gift whose length is 50 cm, its width 30 cm and its height 40 cm.
Find the volume of the box.

.....

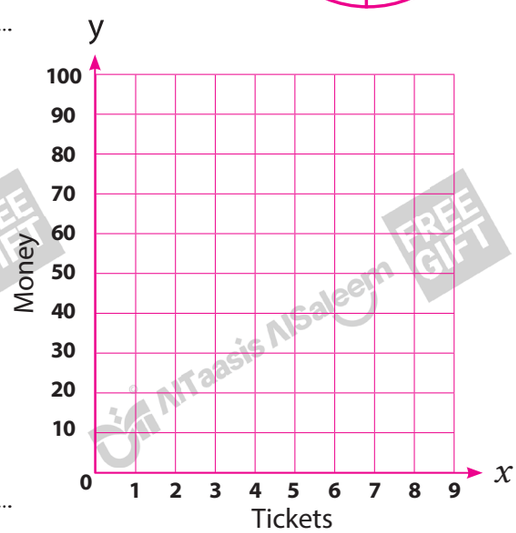
(6) What is the measure of the angle that represents Arabic in the opposite figure?



.....

(7) Nabila is selling cinema tickets. She earns 10 L.E. per ticket. Complete the table, then plot the points on the coordinate grid.

Tickets	2	4	7	8
Money	.....	.....	.....	.....



.....

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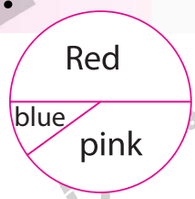
Mathematics Exam 10

First Question 1 Choose the correct answer:

(1) In the opposite figure:

The most preferred color among students is .....



(a) red (b) blue (c) pink (d) others

(2) Number of vertices of a cube ..... number of vertices of a square-based pyramid.

(a) > (b) = (c) < (d) double

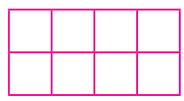
(3) The volume of a cuboid = base area × .....

(a) length (b) width (c) perimeter (d) height

(4) The point (0, 7) lies on the .....

(a) y-axis (b) x-axis (c) origin point (d) ordered

(5) The area of the opposite rectangle = ... square units.



(a) 10 (b) 8 (c) 4 (d) 6

(6) $\frac{2}{3}$ of 6 = ...

(a) 1 (b) 2 (c) 3 (d) 4

(7) $2\frac{1}{3} - \frac{1}{4}$ = ...

(a) $2\frac{1}{7}$ (b) $1\frac{1}{4}$ (c) $2\frac{1}{4}$ (d) $2\frac{1}{12}$

(8) The distance between point A and B is ..... length units.

(a) 1 (b) 8 (c) 6 (d) 7

(9) $2 \times \frac{5}{7}$ = ... × $\frac{2}{7}$

(a) 2 (b) 5 (c) 7 (d) $\frac{5}{7}$

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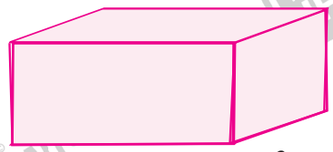
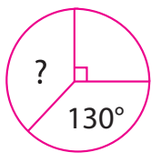
Second Question 2 Answer the following:

(1) If the volume of the opposite cuboid = 140 cm^3 and the area of base is 20 cm^2, find the height of the cuboid

.....



(2) The measure of the central angle of the missing sector is ..... °



(3) Find the value of A in the following equation:

$A \times 8 = 24$

.....

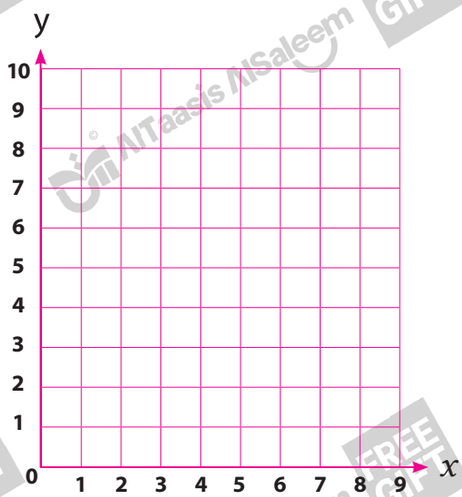
(4) What is the shape of the base of the square-based pyramid?

.....

(5) Nour ran $2\frac{1}{8}$ km on Friday, and $3\frac{1}{4}$ km on Saturday. What is the total distance Nour ran on the two days?

.....

(6) In the opposite coordinate plane:
Graph the figure ABCD where the points are
A (3, 2), B (8, 2), C (8, 5), D (3, 5)



(a) What is the name of the figure ABCD? .....

(b) $\overline{AB}$ is parallel to .....

(7) Complete: In the equilateral triangle, if the lengths of two sides are 5 cm and 5 cm, then the length of the third side is ..... cm.

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Model Answers

Exam (1)

First Question:

(1) b (2) b (3) a (4) a (5) b

(6) a (7) b (8) a (9) c

Second Question:

(1) (a) $3\frac{3}{8}$ (b) $\frac{12}{5}\times\frac{2}{3}=\frac{24}{15}=\frac{8}{5}=1\frac{3}{5}$

(c) $\frac{1}{3}$ (d) $\frac{1}{4}\times\frac{1}{3}=\frac{1}{12}$

(2) 4 units. (3) $3+2\frac{3}{8}+4\frac{1}{4}=3+2\frac{3}{8}+4\frac{2}{8}=9\frac{5}{8}$

(4) Isosceles , right triangle.

(5) $3\times2\frac{1}{5}=3\times\frac{11}{5}=\frac{33}{5}=6\frac{3}{5}$

(6) Length edge of the cube = 2 m.

Volume of the cube = $2\times2\times2=8\ m^3$

Volume of the cuboid = $2\times2\times6=24\ m^3$

Total volume = $8+24=32\ m^3$

(6) Answer by yourself.

Exam (2)

First Question:

(1) d (2) b (3) c (4) a (5) c

(6) a (7) d (8) c (9) b

Second Question:

(1) $3\frac{5}{9}-1\frac{2}{9}=2\frac{3}{9}=2\frac{1}{3}$ (2) (a) $B=\frac{1}{5}$ (b) $B=\frac{1}{3}$

(3) $V=10\times4\times3=10\times12=120\ cm^3$

(4) $A=2\times1\frac{1}{2}=2\times\frac{3}{2}=\frac{6}{2}=3\ m^2$

(5) (a) $\frac{10}{3}\times\frac{11}{2}=\frac{55}{3}=18\frac{1}{3}$ (b) $\frac{2}{5}$

(6) $360^\circ-(100^\circ+103^\circ)=360^\circ-203^\circ=157^\circ$

(7) (a) +3 , +2

(b) y = 17 , (21, 17) complete the table by yourself

Exam (3)

First Question:

(1) c (2) c (3) d (4) a (5) d

(6) b (7) a (8) d (9) b

Second Question:

(1) (a) $4\times3=12$ (b) $2\frac{6}{15}+1\frac{3}{15}=3\frac{9}{15}=3\frac{3}{5}$

(2) $A=7\times7=49\ cm^2$ (3) $V=5\times3\times2=30\ cm^3$

(4)(a) $\frac{1}{4}$ (b) $\frac{1}{2}$ (c) $\frac{1}{8}$

(5) $\frac{2}{3}-\frac{1}{9}=\frac{6}{9}-\frac{1}{9}=\frac{5}{9}$

(6) $2\frac{1}{3}\times12=\frac{7}{3}\times12=28$ L.E (7) Home.

Exam (4)

First Question:

(1) b (2) a (3) d (4) b (5) d

(6) a (7) a (8) b (9) c

Second Question:

(1) B = 2 (2) $400-260=140\ m^3$

(3) $A=2\frac{1}{3}\times1\frac{1}{2}=\frac{7}{3}\times\frac{3}{2}=\frac{7}{2}=3\frac{1}{2}$

(4) Answer by yourself.

(5) (a) $\frac{6}{10}-\frac{2}{10}=\frac{4}{10}=\frac{2}{5}$ (b) $5\times2=10$

(6) 0 edges.

(7) House (0 , 4)

Library (2 , 5)

Garden (3 , 3)

Exam (5)

First Question:

(1) d (2) d (3) d (4) b (5) c

(6) c (7) b (8) b (9) c

Second Question:

(1) C = 5 (2) $A=5\times1\frac{1}{5}=5\times\frac{6}{5}=6\ m^2$

(3) (a) $\frac{1}{2}\times6=3$ (b) $\frac{2}{3}\times\frac{15}{10}=\frac{30}{30}=1$

(c) $\frac{10}{12}+\frac{1}{12}=\frac{11}{12}$ (d) $3\frac{10}{15}-1\frac{9}{15}=2\frac{1}{15}$

(4) $L=\frac{72}{3\times4}=\frac{72}{12}=6\ cm$

(5) (a) C (5 , 9) (b) Right triangle.

(6) (a) A = 1 (b) 4 units.

(7) $2\frac{1}{3}\times5\frac{1}{2}=\frac{7}{3}\times\frac{11}{2}=\frac{77}{6}=12\frac{5}{6}$

Exam (6)

First Question:

(1) b (2) d (3) c (4) d (5) a

(6) c (7) d (8) a (9) c

Second Question:

(1) 1 , 18 , V = 18

(2) (a) AB = 6 − 2 = 4 units. (b) square.

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(3) $7 \div \frac{1}{3} = 7 \times 3 = 21$

(4) $(2 + \frac{2}{5}) \times \frac{2}{3} = (2 \times \frac{2}{3}) + (\frac{2}{5} \times \frac{2}{3})$

$= \frac{4}{3} + \frac{4}{15} = \frac{20}{15} + \frac{4}{15} = \frac{24}{15}$

$= \frac{8}{5} = 1\frac{3}{5}$

(5) Answer by yourself. (6) $1\frac{1}{6} + 2\frac{2}{6} = 3\frac{3}{6} = 3\frac{1}{2}$

(7) $2\frac{1}{3} \times 1\frac{5}{7} = \frac{7}{3} \times \frac{12}{7} = \frac{84}{21} =$ 4 kg

Exam (7)

First Question:

(1) c (2) b (3) c (4) a (5) b

(6) c (7) c (8) b (9) d

Second Question:

(1) L = 4 , W = 2 , h = 2

$V = 4 \times 2 \times 2 = 16\ cm^3$

(2) $\frac{1}{7} + \frac{1}{4} = \frac{4}{28} + \frac{7}{28} = \frac{11}{28}$

(3) $12 \div 5 = \frac{12}{5} = 2\frac{2}{5}$ (4) $\frac{5}{7} = \frac{30}{42}$

(5) (a)Length. (b) 2

(6) (a) A = 2 (b) AC = 8 – 2 = 6

(7) (3 , 1)

Exam (8)

First Question:

(1) c (2) d (3) b (4) b (5) c

(6) a (7) b (8) c (9) d

Second Question:

(1) (a) 100 (b) $\frac{30}{100} = \frac{3}{10}$

(2) (a) $\frac{7}{3} \times \frac{3}{5} = \frac{21}{15} = \frac{7}{5} = 1\frac{2}{5}$ (b) $5\frac{7}{7} = 6$

(3) $A = 3 \times \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}\ m^2$

(4) V of (A) = $10 \times 3 \times 4 = 10 \times 12 = 120\ cm^3$

V of (B) = $3 \times 3 \times 12 = 9 \times 12 = 108\ cm^3$

Volume of (A) is greater.

(5) Trapezium. (6) $80\frac{3}{4} - 20\frac{2}{4} = 60\frac{1}{4}$ pounds

(7) D (2 , 1) , rectangle.

Exam (9)

First Question:

(1) d (2) a (3) c (4) b (5) a

(6) c (7) c (8) c (9) b

Second Question:

(1) $\frac{1}{5} + \frac{1}{3} = \frac{3}{15} + \frac{5}{15} = \frac{8}{15}$

(2) Scalene , right triangle. (3) $\frac{7}{3} \times \frac{19}{7} = \frac{19}{3} = 6\frac{1}{3}$

(4) $A = 1\frac{1}{2} \times 2\frac{1}{2} = \frac{3}{2} \times \frac{5}{2} = \frac{15}{4} = 3\frac{3}{4}\ m^2$

(5) $V = 50 \times 30 \times 40 = 60{,}000\ cm^3$ (6) 90°

(7)

Tickets	2	4	7	8
Money	20	40	70	80

(2 , 20) , (4 , 40) , (7 , 70) , (8 , 80)

Exam (10)

First Question:

(1) a (2) a (3) d (4) a (5) b

(6) d (7) d (8) d (9) b

Second Question:

(1) H = 140 ÷ 20 = 7 cm.

(2) $360^\circ - (130^\circ + 90^\circ) = 360^\circ - 220^\circ = 140^\circ$

(3) A = 3

(4) Square

(5) $2\frac{1}{8} + 3\frac{2}{8} = 5\frac{3}{8}$ Km.

(6) (a) rectangle. (b) $\overline{DC}$

(7) 5 cm.

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

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امسح الباركود بالموبيل لتثبيت التطبيق وتحميل كل الملازم مجانا وبسرعه

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موقع الدكتور محمد رزق
Dr.MoRizK